

Title (en)
METHOD AND APPARATUS FOR ENHANCING NON-ACCESS STRATUM (NAS) SECURITY IN LTE MOBILE UNITS

Title (de)
VERFAHREN UND VORRICHTUNG ZUR VERBESSERUNG DER NON-ACCESS-STRATUM (NAS)-SICHERHEIT IN MOBILEN LTE-EINHEITEN

Title (fr)
MÉTHODE ET APPAREIL POUR AMÉLIORER LA SÉCURITÉ DE COUCHE NON D'ACCÈS (NAS) POUR DES UNITÉS MOBILES LTE

Publication
EP 2536188 B1 20180829 (EN)

Application
EP 12184517 A 20081022

Priority

- US 98269807 P 20071025
- EP 08841254 A 20081022
- US 2008080694 W 20081022

Abstract (en)
[origin: WO2009055414A2] A method and apparatus performs processing of the non-access stratus (NAS) layer (layer 3) in long term evolution (LTE) wireless transmit/receive units (WTRUs), which allows the NAS protocol layer to route layer 3 messages to the correct NAS entity, and to encode new NAS message types and information elements. A new architecture is presented that enables NAS security. When a NAS message is generated, a determination is made as to whether or not to cipher, de-cipher and/or integrity check the NAS message based on at least one of a protocol discriminator (PD) of the NAS message, an indicator field in a header of the NAS message, the type of the NAS message, a NAS security state variable, and an indication by an upper layer protocol. The NAS security state variable indicates whether NAS security is currently active or not and may comprise one bit.

IPC 8 full level
H04W 12/02 (2009.01); **H04W 12/10** (2009.01)

CPC (source: CN EP KR US)
H04L 69/14 (2013.01 - KR); **H04W 12/00** (2013.01 - US); **H04W 12/02** (2013.01 - CN US); **H04W 12/037** (2021.01 - EP US); **H04W 12/08** (2013.01 - US); **H04W 12/10** (2013.01 - CN EP US); **H04W 80/02** (2013.01 - CN EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2009055414 A2 20090430; WO 2009055414 A3 20091217; AR 069060 A1 20091223; CN 101836470 A 20100915; CN 101836470 B 20150318; CN 104618901 A 20150513; CN 104618901 B 20190104; CN 104661216 A 20150527; CN 104661216 B 20181009; CN 201286113 Y 20090805; EP 2218272 A2 20100818; EP 2218272 B1 20140319; EP 2536187 A1 20121219; EP 2536187 B1 20180801; EP 2536188 A1 20121219; EP 2536188 B1 20180829; EP 3454584 A1 20190313; JP 2011503938 A 20110127; JP 2013118660 A 20130613; JP 2014143735 A 20140807; JP 2016105643 A 20160609; JP 5481382 B2 20140423; JP 5514919 B2 20140604; JP 5883055 B2 20160309; JP 6240233 B2 20171129; KR 101159441 B1 20120713; KR 101395204 B1 20140521; KR 101507482 B1 20150407; KR 101583231 B1 20160108; KR 101583234 B1 20160108; KR 20100080861 A 20100712; KR 20100085135 A 20100728; KR 20130126742 A 20131120; KR 20140038572 A 20140328; KR 20140139130 A 20141204; TW 200922166 A 20090516; TW 201511585 A 20150316; TW I469555 B 20150111; TW I556659 B 20161101; TW M352195 U 20090301; US 2009111423 A1 20090430; US 2014011474 A1 20140109; US 2015189512 A1 20150702; US 2016345177 A1 20161124; US 8532614 B2 20130910; US 8971847 B2 20150303; US 9408080 B2 20160802; US 9801072 B2 20171024

DOCDB simple family (application)
US 2008080694 W 20081022; AR P080104689 A 20081027; CN 200820175205 U 20081024; CN 200880113207 A 20081022; CN 201510082126 A 20081022; CN 201510082313 A 20081022; EP 08841254 A 20081022; EP 12184509 A 20081022; EP 12184517 A 20081022; EP 18185971 A 20081022; JP 2010531177 A 20081022; JP 2013000712 A 20130107; JP 2014073526 A 20140331; JP 2016020062 A 20160204; KR 20107011417 A 20081022; KR 20107013198 A 20081022; KR 20137027807 A 20081022; KR 20147006960 A 20081022; KR 20147031302 A 20081022; TW 103134812 A 20081022; TW 97140551 A 20081022; TW 97218887 U 20081022; US 201314021436 A 20130909; US 201514635533 A 20150302; US 201615225443 A 20160801; US 25426508 A 20081020